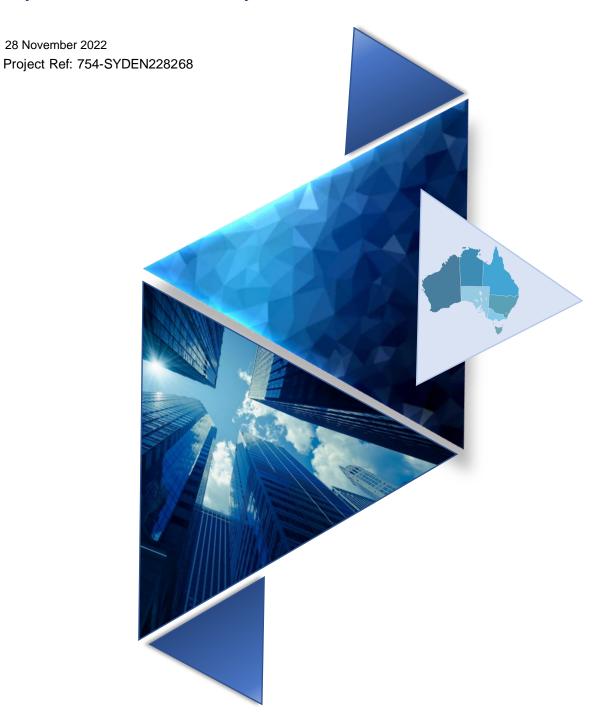
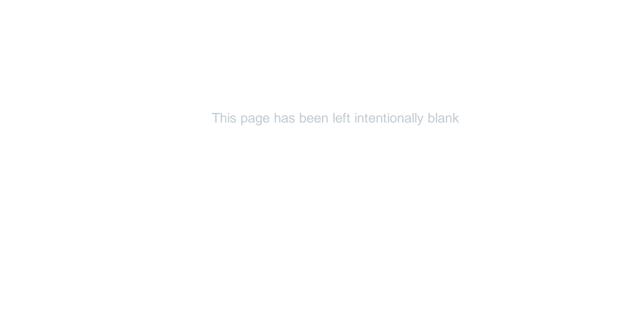


Mirvac Real Estate Pty Ltd

Confined Spaces Assessment

Bay Centre, 65 Pirrama Road, Pyrmont, NSW





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CONFINED SPACES ASSESSMENT

Prepared for Mirvac Real Estate Pty Ltd

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EXECUTIVE SUMMARY

Tetra Tech Coffey Pty Ltd (TTC) was commissioned by Mirvac Real Estate Pty Ltd (the client) to conduct a confined spaces assessment at the Bay Centre office building, located at 65 Pirrama Road, Pyrmont. Ben McCann of TTC carried out the audit on 25th October 2022. For the purpose of this audit, the principal definition of a confined space is that described in the *Work Health and Safety Regulation 2017 (NSW)*.

Identified confined spaces were not entered by personnel at the time of the assessment, therefore the risk assessments contained in this report are limited to general observations made. A more detailed task specific risk assessment is required prior to entering any confined spaces identified in this report.

Assessment Findings

The following findings are based on the site inspection, discussions with site personnel, and review of relevant documentation:

- A total of 4 confined spaces were identified at the site.
- The majority of identified confined spaces were appropriately signposted, however the grease trap in the Grease Trap Room on Level B1 was not signposted.
- Confined space signage was observed on the cooling towers in the Roof Level cooling tower area, however these are not considered to be confined spaces.
- All confined spaces appeared to be appropriately secured from unauthorised access at the time of the assessment.
- The Mirvac Confined Space Entry Permit was made available for review. This included a requirement for the isolation of plant and services associated with confined spaces prior to any entry occurring.
- TTC was advised that no recent confined space entries have occurred at the site.

Note: Refer to Appendix A for the confined space register and Appendix C for photographs.

Recommended Actions

The following actions are recommended, based on the above findings:

- Ensure a task specific risk assessment is conducted prior to commencing any works within confined spaces.
- Ensure the grease trap in the Grease Trap Room on Leve B1 is appropriately signposted. Ensure the signage complies with AS 2865:2009 Confined Spaces, Section 3.2.2. Refer to Appendix D for examples of confined space safety signage.
- Remove the confined space signage from the cooling towers in the Roof Level cooling tower area, to avoid confusion by contractors.
- Ensure all staff and contractors working within areas containing confined spaces at the site are provided with appropriate information, instruction and training to ensure they are able to work safely in these areas. It is recommended that this be managed within the site induction.
- Although it was not possible to access the spaces at the time of the inspection, they have been
 deemed to be a confined space (in order to take a precautionary approach) and should continue to
 be treated as such until confirmed as otherwise.
- Avoid entering the confined spaces if possible e.g. conduct cleaning/maintenance activities from outside etc.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure task specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.

Confined Spaces Assessment

- All works and access in relation to confined spaces must be undertaken in accordance with the Work Health and Safety Regulation 2017 (NSW), the Code of Practice: Confined Spaces (SafeWork NSW, 2019) and AS 2865:2009 Confined Spaces.
- TTC is able to assist the client to implement the above recommended actions.

1. INTRODUCTION

Tetra Tech Coffey Pty Ltd (TTC) was commissioned by Mirvac Real Estate Pty Ltd (the client) to conduct a confined spaces assessment at the Bay Centre office building, located at 65 Pirrama Road, Pyrmont. Ben McCann of TTC carried out the audit on 25th October 2022. For the purpose of this audit, the principal definition of a confined space is that described in the *Work Health and Safety Regulation 2017 (NSW)*.

Identified confined spaces were not entered by personnel at the time of the assessment, therefore the risk assessments contained in this report are limited to general observations made. A more detailed task specific risk assessment is required prior to entering any confined spaces identified in this report.

1.1 Site Description

The site consisted of a 6 level (approximately 22,197m²) office building, constructed in 2002. The building was occupied at the time of the assessment.

2. SCOPE

The objective of the Confined Spaces Assessment was to identify and assess confined spaces at the site, and manage the associated risks to the health and safety of site occupants (including workers, students, visitors and contractors). The assessment included a physical inspection of accessible areas of the site, as well as discussions with relevant site personnel, and a review of relevant systems/documentation.

2.1 Inaccessible Areas

The following areas were not accessible during the inspection:

- Within confined spaces, voids and ceiling spaces.
- Within plant and machinery.
- Lift shafts and pits.
- · Below cars and stored items.
- Occupied rooms and tenanted areas.
- Roof areas.

WHAT IS A CONFINED SPACE?

The Work Health & Safety Regulation 2017 (NSW) defines a confined space as an enclosed or partially enclosed space that:

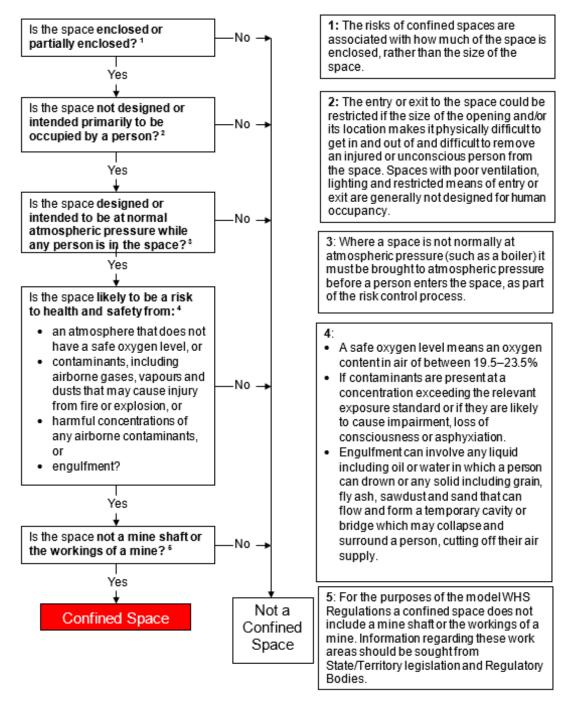
- a) is not designed or intended primarily to be occupied by a person; and
- b) is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space, and
- c) is or is likely to be a risk to health and safety from:
 - i. an atmosphere that does not have a safe oxygen level; or
 - ii. contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion, or
 - iii. harmful concentrations of any airborne contaminants, or
 - iv. engulfment.

Note: The above definition does not include a mine shaft or the workings of a mine.

Section 66 (1) of the *Work Health and Safety Regulations 2017 (NSW)* states that 'a PCBU must manage risks to health and safety associated with a confined space at a workplace including risks associated with entering, working in, on or in the vicinity of the confined space (including a risk of a person inadvertently entering the confined space'.

Section 62 (2) of the Regulations also state that the requirements relating to confined spaces within the Regulations refer to confined spaces that are under the PCBUs management or control. For this reason, confined spaces that are identified on site but that fall under the management or control of another PCBU have not been included in this report. Examples of such confined spaces include storm water drains and sewer pits (managed by the local water authority), and underground electrical substations (managed by the local power authority).

Further explanation of a confined space definition is explained in the figure below:



Source: Compliance Code: Confined Spaces 2019

RISK ASSESSMENT

Risk assessments have been conducted for each confined space identified on site. The risk assessments considered the nature of the confined space, including its location, frequency of entry, work performed, the nature of the potential hazards present and the controls currently in place. Each identified potential hazard was risk assessed, based on the likelihood of an event occurring, and the consequence or outcome of that event in general terms. An overall risk rating of Low, Medium, High, Very High or Extreme was then assigned to each hazard using the provided risk assessment matrix (refer to Risk Matrix below).

The assessment of the risk is a subjective assessment and is to be used for guidance purposes in relation to selecting and implementing corrective actions.

Risk Matrix								
	CONSEQUENCE							
LIKELIHOOD	Insignificant	Minor	Moderate	Major	Catastrophic			
LIKELIHOOD	(No injuries)	(First aid only)	(Medical treatment)	(Extensive injuries, loss of production)	(Fatality / permanent disability)			
Almost Certain								
(Expected in most circumstances)	Medium	High	Very High	Extreme	Extreme			
Likely								
(Will probably occur in most circumstances)	Medium	High	Very High	Extreme	Extreme			
Possible								
(Might occur at some time)	Low	Medium	High	Very High	Extreme			
Unlikely	Low	Low	Medium	High	Very High			
(Not likely to occur)	LOW	LOW	Mediam	High	very migri			
Rare								
(May occur only in exceptional circumstances)	Low	Low	Medium	High	High			

Where the hazards associated with work in particular confined spaces are similar in nature, a group risk assessment has been prepared. Separate space specific risk assessments will be prepared for any confined spaces identified as having unique hazards or risks that are different to the group risk assessment.

Refer to **Appendix B** for confined space risk assessments.

5. FINDINGS

The following findings are based on the site inspection, discussions with site personnel, and review of relevant documentation:

- A total of 4 confined spaces were identified at the site.
- The majority of identified confined spaces were appropriately signposted, however the grease trap in the Grease Trap Room on Level B1 was not signposted.

- Confined space signage was observed on the cooling towers in the Roof Level cooling tower area, however these are not considered to be confined spaces.
- All confined spaces appeared to be appropriately secured from unauthorised access at the time of the assessment.
- The Mirvac Confined Space Entry Permit was made available for review. This included a requirement for the isolation of plant and services associated with confined spaces prior to any entry occurring.
- TTC was advised that no recent confined space entries have occurred at the site.

Note: Refer to Appendix A for the confined space register and Appendix C for photographs.

RECOMMENDED ACTIONS

The following actions are recommended, based on the above findings:

- Ensure a task specific risk assessment is conducted prior to commencing any works within confined spaces.
- Ensure the grease trap in the Grease Trap Room on Leve B1 is appropriately signposted. Ensure the signage complies with AS 2865:2009 Confined Spaces, Section 3.2.2. Refer to Appendix D for examples of confined space safety signage.
- Remove the confined space signage from the cooling towers in the Roof Level cooling tower area, to avoid confusion by contractors.
- Ensure all staff and contractors working within areas containing confined spaces at the site are provided with appropriate information, instruction and training to ensure they are able to work safely in these areas. It is recommended that this be managed within the site induction.
- Although it was not possible to access the spaces at the time of the inspection, they have been deemed to be a confined space (in order to take a precautionary approach) and should continue to be treated as such until confirmed as otherwise.
- Avoid entering the confined spaces if possible e.g. conduct cleaning/maintenance activities from outside etc.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any
 persons entering the confined space.
- Ensure task specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.

REFERENCES

- Work Health and Safety Act 2011 (NSW).
- Work Health and Safety Regulation 2017 (NSW).
- Code of Practice: Confined Spaces (SafeWork NSW, 2019).
- Australian Standard 2865:2009 Confined Spaces.

8. LIMITATIONS

This report and the associated services performed by TTC are in accordance with the scope of services set out in the contract between TTC and the Client. The scope of services was defined by the requests of the Client, by the time and budgetary constraints imposed by the Client, and by the availability of access to the site.

TTC derived the data in this report primarily from visual inspections, examination of available records, and interviews with individuals with relevant information about the site. In preparing this report, TTC has relied upon, and presumed accurate, certain information (or absence thereof) provided by government authorities, the Client and others identified herein. Except as otherwise stated in the report, TTC has not attempted to verify the accuracy or completeness of any such information.

No warranty, undertaking, or guarantee, whether expressed or implied, is made with respect to the data reported or to the findings, observations, and recommendations expressed in this report. Furthermore, such data, findings, observations, and recommendations are based solely upon existence at the time of the assessment. The passage of time, manifestation of latent conditions or impacts of future events (e.g. changes in legislation, scientific knowledge, land uses, etc.) may require further investigation at the site with subsequent data analysis and re-evaluation of the findings, observations, and recommendations expressed in this report.

This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the provisions of the agreement between TTC and the Client. TTC accepts no liability or responsibility whatsoever and expressly disclaims any responsibility for or in respect of any use of or reliance upon this report by any third party or parties. It is the responsibility of the Client to accept if the Client so chooses any recommendations contained within and implement them in an appropriate, suitable and timely manner.

APPENDIX A: CONFINED SPACES REGISTER

Confined Spaces Assessment

Confined Spaces Register										
Space ID	Туре	Level	Location / Comments	Secure	Signage	Dimensions	Risk Assessment	Photo		
001	Sewer pit	B2	Car park, adjacent to parking space 20	Yes	Yes	Unknown	А	01		
002	Subsoil pit	B2	Car park, adjacent to parking space 23	Yes	Yes	Unknown	В	02		
003	Grease trap	B1	Grease Trap Room	Yes	No	6m ³	С	03		
004	Unknown pit	B1	Hydraulic Pump Room	Yes	Yes	Unknown	D	04		

APPENDIX B: CONFINED SPACE RISK ASSESSMENTS

Risk Assessment A: S	Sowor P	i+					
			YES				
(If the answer to A, B and a	t least one	ents of a Confined Space? e part of C is yes, then the space is a confined space	TES				
·	and requires a risk assessment). A Is the space designed or intended primarily not to be occupied by a person? YES						
	A. Is the space designed of interided primarily not to be occupied by a person:						
person is in the space?		d to be, at normal atmospheric pressure while any	YES				
C. Is the space likely to be	a risk to h	nealth and safety from:					
 an atmosphere that of 	does not h	ave a safe oxygen level?	YES				
from fire or explosionharmful concentration	?	ne gases, vapours and dusts, that may cause injury airborne contaminants?	YES YES				
engulfment? Works to be completed.	Maintan	and and increation activities	YES				
Works to be completed: Comments:		ance and inspection activities.	mont				
		to space is restricted. No access gained during assess	ment.				
Hazard Types	Risk Rating	Recommended Actions					
Restricted entry and egress in an emergency	VH	Wear a safety harness and remain connected to a liftall times. Ensure the standby person remains in constant contains.					
Oxygen deficiency whilst work in progress	E	person(s) entering the space. Monitor the atmosphere within the space prior to entering. Only enter the space if oxygen levels are within the safe range (19.5% to 23.5%). Ventilate the space if required. Continually monitor the atmosphere within the space during					
Build-up or excess of vapours such as hydrogen sulphide (H ₂ S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	E	entry. Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.					
Build-up of organic vapours to within explosive limits	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required.						
Airborne dust concentrations above the WES	L	No action required.					
Radiation (non-ionising and ionising)	L	No action required.					
Noise generated at levels above 85 dB(A)	L	No action required.					
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	E	Isolate all services within the space. Ensure no vehicles operate in the vicinity of the entry Ensure the standby person is monitoring external we conditions and any other factors that could impact th confined space.	ather				

Hazard Types	Risk Rating	Recommended Actions
Engulfment	ш	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	M	Ensure a two-person lift or lifting device is used when lifting or removing covers. Use a winch to lower equipment into the space.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	L	No action required.
Skin contact with hazardous substances and surface contaminants	I	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	Η	Wear slip resistant boots.
Falls from height	VH	Wear a safety harness and remain connected to a lifeline at all times.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	I	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses working at heights and traffic management issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been
 deemed to be a confined space (in order to take a precautionary approach) and should continue
 to be treated as such until confirmed as otherwise.

Risk Assessment B: \$	Subsoil	Di+				
		ents of a Confined Space?	YES			
(If the answer to A, B and a	t least one	e part of C is yes, then the space is a confined space	123			
and requires a risk assessment).						
D. Is the space designed or intended primarily not to be occupied by a person?						
E. Is the space designed or person is in the space?	r intended	d to be, at normal atmospheric pressure while any	YES			
F. Is the space likely to be	a risk to h	nealth and safety from:				
 an atmosphere that of 	does not h	ave a safe oxygen level?	YES			
from fire or explosion	?	ne gases, vapours and dusts, that may cause injury airborne contaminants?	NO YES			
engulfment?	-		YES			
Works to be completed:		ance and inspection activities.				
Comments:		to space is restricted. No access gained during assess	ment.			
Hazard Types	Risk Rating	Recommended Actions				
Restricted entry and egress in an emergency	VH	Wear a safety harness and remain connected to a lifall times. Ensure the standby person remains in constant contents person(s) entering the space.				
Oxygen deficiency whilst work in progress	Е					
Build-up or excess of vapours such as hydrogen sulphide (H ₂ S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	VH	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.				
Build-up of organic vapours to within explosive limits	rganic H Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required.					
Airborne dust concentrations above the WES	L No action required.					
Radiation (non-ionising and ionising)	L	No action required.				
Noise generated at levels above 85 dB(A)	L	No action required.				
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	E	Isolate all services within the space. Ensure no vehicles operate in the vicinity of the entry Ensure the standby person is monitoring external we conditions and any other factors that could impact the confined space.	ather			

Hazard Types	Risk Rating	Recommended Actions
Engulfment	ш	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	M	Ensure a two-person lift or lifting device is used when lifting or removing covers. Use a winch to lower equipment into the space.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	L	No action required.
Skin contact with hazardous substances and surface contaminants	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	Η	Wear slip resistant boots.
Falls from height	VH	Wear a safety harness and remain connected to a lifeline at all times.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	Н	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses working at heights and traffic management issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been
 deemed to be a confined space (in order to take a precautionary approach) and should continue
 to be treated as such until confirmed as otherwise.

Rick Assessment C.	Propos T						
Risk Assessment C: (ents of a Confined Space?	YES				
•	•	e part of C is yes, then the space is a confined space	TES				
	and requires a risk assessment).						
A. Is the space intended to	be, or is	likely to be, entered by any person?	YES				
•		restricted means for entry or exit that makes it	YES				
		enter or exit the space?					
C. Is the space likely to be		•	YES				
•		ave a safe oxygen level? ne gases, vapours and dusts, that may cause injury	NO				
from fire or explosior		ie gases, vapours and dusts, that may cause injury	110				
 harmful concentration 		airborne contaminants?	YES				
engulfment?			YES				
Works to be completed:		n. Presumed maintenance and/or inspection activites.					
Comments:		within the space was not available at the time of asses	sment.				
Hazard Types	Risk Rating	Recommended Actions					
Restricted entry and	Н	Wear a safety harness and remain connected to a life	eline at				
egress in an emergency		all times.	مادان در در				
		Ensure the standby person remains in constant conta person(s) entering the space.	act with				
Oxygen deficiency whilst	VH	Monitor the atmosphere within the space prior to enter	ering.				
work in progress		Only enter the space if oxygen levels are within the s	safe				
		range (19.5% to 23.5%). Ventilate the space if required.					
		Continually monitor the atmosphere within the space	during				
D 711		entry.	•				
Build-up or excess of vapours such as	Н	Monitor the atmosphere within the space prior to enterprine and ventilate the space if required.	ering.				
hydrogen sulphide (H ₂ S)		Continually monitor the atmosphere within the space	during				
or carbon monoxide (CO)		entry.					
to concentrations above the workplace exposure							
standards (WES)							
Build-up of organic	Н	Monitor the atmosphere within the space prior to enter	ering.				
vapours to within explosive limits		Purge and ventilate the space if required. Only enter the space if the concentration of any flam	mahla				
explosive littig		vapours is less than 5% of its lower explosive limit.	IIIabie				
		Continually monitor the atmosphere within the space	during				
		entry. Ensure no ignition sources are located within or intro	duced				
		into the space.	uuueu				
Airborne dust	L	No action required.					
concentrations above the WES							
Radiation (non-ionising and ionising)	L	No action required.					
Noise generated at levels above 85 dB(A)	L	No action required.					

Hazard Types	Risk Rating	Recommended Actions
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	VH	Isolate all services within the space.
Engulfment	VH	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	ا ۔	No action required.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	L	No action required.
Skin contact with hazardous substances and surface contaminants	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	Н	Wear slip resistant boots.
Falls from height	L	No action required.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	M	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been deemed to be a confined space (in order to take a precautionary approach) and should continue to be treated as such until confirmed as otherwise.

Risk Assessment D: U	Inknow	n Pit			
		ents of a Confined Space?	YES		
	t least one	e part of C is yes, then the space is a confined space			
A. Is the space intended to be, or is likely to be, entered by any person?					
		restricted means for entry or exit that makes it enter or exit the space?	YES		
C. Is the space likely to be		-	VEC		
 contaminants, includi from fire or explosior 	ng airbori ì?	nave a safe oxygen level? The gases, vapours and dusts, that may cause injury airborne contaminants?	YES YES YES YES		
enguiment:			1123		
Works to be completed:		n. Presumed maintenance and/or inspection activities.			
Comments:		pose of the pit is unknown. Access within the space was at the time of assessment.	as not		
Hazard Types	Risk Rating	Recommended Actions			
Restricted entry and egress in an emergency	VH	Wear a safety harness and remain connected to a lifeline at all times. Ensure the standby person remains in constant contact with person(s) entering the space.			
Oxygen deficiency whilst work in progress	Е	Monitor the atmosphere within the space prior to entering. Only enter the space if oxygen levels are within the safe range (19.5% to 23.5%). Ventilate the space if required. Continually monitor the atmosphere within the space during			
Build-up or excess of vapours such as hydrogen sulphide (H ₂ S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	E	entry. Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.			
Build-up of organic vapours to within explosive limits	Е	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Only enter the space if the concentration of any flammable vapours is less than 5% of its lower explosive limit. Continually monitor the atmosphere within the space during entry. Ensure no ignition sources are located within or introduced into the space.			
Airborne dust concentrations above the WES	L	No action required.			
Radiation (non-ionising and ionising)	L	No action required.			
Noise generated at levels above 85 dB(A)	M	Isolate machinery. Wear appropriate PPE (e.g. heari protection).	ng		

Hazard Types	Risk Rating	Recommended Actions
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	E	Isolate all services within the space. Ensure the standby person is monitoring external weather conditions and any other factors that could impact the confined space.
Engulfment	E	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	M	Ensure a two-person lift or lifting device is used when lifting or removing covers. Use a winch to lower equipment into the space.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	L	No action required.
Skin contact with hazardous substances and surface contaminants	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	Н	Wear slip resistant boots.
Falls from height	I	Wear a safety harness and remain connected to a lifeline at all times.
Electrical hazards	M	Isolate all power sources within the space. Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	M	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses working at heights issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been
 deemed to be a confined space (in order to take a precautionary approach) and should continue
 to be treated as such until confirmed as otherwise.

APPENDIX C: PHOTOGRAPHS



Photo 01. Level B2, car park, adjacent parking space 20 – sewer pit.



Photo 02. Level B2, car park, adjacent parking space 23 – subsoil pit.



Photo 03. Level B1, Grease Trap Room – grease trap (not signposted).



Photo 04. Level B1, Hydraulic Pump Room – unknown pit.

APPENDIX D: CONFINED SPACE SIGNAGE

Example A: Fixed confined space warning sign that can be established in a prominent position adjacent the confined space or on the access hatch.



Example B: Another fixed confined space warning sign that can be established in a prominent position adjacent the confined space or on the access hatch. The warning signage carries brief information that would need to be listed in the confined space entry permit.



Example C: Mobile confined space warning sign that can be established in a prominent position adjacent the confined space while works are in progress.

